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Prof. O. W. Anthony writes: "Allow me to congratulate you on the great success you are making of the MONTHLY. It is the best mathematical paper published for working mathematicians. I will send in my subscription for the coming year in a short time, and if there is any falling behind in financial matters, will be more than willing to bear my share." We are very thankful for Professor Anthony's kind words and generous offer of substantial support. We wish that the many hundreds of mathematicians of this country who are not now subscribers, would manifest the same spirit; they would then put their names upon our subscription list and contribute to the pages of the MONTHLY.

BOOKS AND PERIODICALS.

Elements of Geometry. By George C. Edwards, Ph. B., Associate Professor of Mathematics in the University of California. 8vo. cloth, 293 pp. Price, \$1.10. New York: Macmillan & Co.

Some of the salient features of this new work are the concise and accurate statement of the definitions, the natural arrangement of the parts, the great generality of the demonstrations of many of the propositions, numerous interesting and valuable notes, and the development of method of attack in the solution of problems.

It is to be regretted that the author has omitted the subject of *Proportion*, giving as his reason that Proportion properly belongs to Algebra. While this is true, it is also true that many students begin the study of Geometry before they come to the study of Proportion in Algebra. But even if they have been drilled in the subject in Algebra, it has been my experience that the little time required for its discussion in Geometry is most helpful to even the brightest students, while its omission would prove very unsatisfactory to those who have not had it previously or who have had it several years previous to taking up Geometry.

The last chapter is devoted to the treatment of the Conic Sections. At the end of Plane Geometry and at the end of Solid Geometry there is given a large number of exercises designed to review the work preceding them, and thoroughly to establish method of attack in the mind of the student. Corollaries and scholia have been in large measure replaced by well chosen exercises. On pages 155—162 are thirty-nine diagrams to illustrate as many different demonstrations of the Pythagorean Proposition. The book is well written and the publishers have presented it for public favor in good style. B. F. F.

Plane and Spherical Trigonometry. By G. A. Wentworth, A. M., author of a series of text-books in Mathematics. Revised edition. 8vo. cloth and leather back, 192 pp. Price, \$0.85. Boston and Chicago: Ginn & Co.

In preparing this work the aim has been to furnish just so much of Trigonometry as is actually taught in our best schools and colleges. Consequently all investigations that are important only for the special student have been omitted, except the development of functions in series. The principles have been unfolded with the utmost brevity consistent with simplicity and clearness, and interesting problems have been selected with a view of awakening a real love for the study.

Preface.

The book is a good one and is most admirably adapted to the purpose for which it was prepared. B. F. F.

The Elements of Co-ordinate Geometry. By S. L. Loney, M. A., Late Fellow of Sidney Sussex College, Cambridge, Professor at the Royal Holloway College, and author of a Treatise on Elementary Dynamics, a Treatise on Plane Trigonometry, etc. 8vo. cloth, 416 pp. Price, \$1.25. New York: Macmillan & Co.

This excellent book exemplifies the sound judgment and painstaking care which characterizes all of Professor Loney's mathematical works. He is putting himself in the front rank of mathematical writers of the present time, and his books will produce a healthful influence on the mathematicians of the future. We hope that the next book Mr. Loney writes will be a treatise on Spherical Trigonometry, thus making his Treatise on Trigonometry the most complete and admirable Treatise with which we are acquainted.

B. F. F.

The Mathematical Visitor. Edited and published by Artemas Martin, M. A., Ph. D., LL. D., United States Coast Survey, Washington, D. C. Quarto, 18 pp. Price, 50 cents. Issued annually.

The number for 1894 has just reached us. In it is published a number of different solutions of five different problems in Probability. The solutions are by Henry Heaton, G. B. M. Zerr, and the late Professor E. B. Seitz. Five excellent solutions of a difficult problem concerning the *curve of concealment* are also published. The solutions are by Dr. E. A. Bowser, Henry Heaton, Dr. Martin, the late Dr. J. E. Hendricks, and Charles H. Kummell. Two other interesting solutions of a problem are published. These are by J. F. W. Scheffer, and J. A. Pollard.

We regret very much that the ill health of Dr. Martin prevents his publishing the *Mathematical Visitor* and the *Mathematical Magazine* regularly. These two magazines are the type of excellence and beauty.

B. F. F.

The Cosmopolitan. An International Illustrated Monthly Magazine. Edited by John Brisben Walker. Price, \$1.00 per year. Single number, 10 cents.

For complete and immediate revolution of transportation methods, involving a reduction of freight charges on grain from the West to New York of from 50 to 60 per cent, is what is predicted in the November *Cosmopolitan*. The plan proposes using light and inexpensive corrugated iron cylinders, hung on a slight rail supported on poles from a cross-arm—the whole system involving an expense of not more than fifteen hundred dollars a mile for construction. The rolling stock is equally simple and comparatively inexpensive. Continuous lines of cylinders, moving with no interval to speak of, would carry more grain in a day than a quadruple track railway. This would constitute a sort of grain-pipe line. The *Cosmopolitan* also points out the probable abolition of street cars before the coming horseless carriage, which can be operated by a boy on asphalt pavements at a total expense for labor, oil, and interest, of not more than one dollar a day.

B. F. F.

The Review of Reviews. An International Illustrated Monthly Magazine. Edited by Albert Shaw. Price, \$2.50 per year. Single number, 25 cents. The Review of Reviews Co., New York City.

Foreign affairs naturally have more than usual prominence in the November *Review of Reviews*. In the "Progress of the World," the department of that periodical in which the editor rapidly reviews the events of the preceding month, the possibilities of war in the far East are pointedly set forth. A rather theme suggested in the same connection is the progress of Christian missions in the Orient. The prospects of Japan and Russia as Eastern powers are tersely discussed. The editor also comments briefly on the relations of Russia and France, the Italian celebrations, the French victory in Madagascar, the Cuban situation, and British policy in Venezuela. Among home topics of the month, the coming elections, the condition of New York politics, the anti-prize-fight campaign in the Southwest, and the educational outlook are selected for treatment.

B. F. F.